

IN THE CLAIMS

1. (currently amended) An RF shield for MRI systems, ~~wherein an RF shield comprising a connector configured to connect a capacitor to said RF shield, wherein said RF shield is grounded via a~~grounded via the capacitor, and wherein one of the MRI systems configured to generate a vertical magnetic field.

2. (original) An RF shield according to Claim 1, wherein a capacitance of a capacitor connected to a ground closest to the earth ground is set to the smallest value.

3. (original) An RF shield according to Claim 1, wherein a capacitance of a capacitor is 1000 pF or more.

4. (currently amended) An MRI system ~~having~~comprising:

a capacitor;

a radio-frequency (RF) coil;

a gradient coil; and

an RF shield thereof configured to prevent coupling between said RF coil and said gradient coil, wherein said MRI system configured to generate a vertical magnetic field, and said RF shield configured to be grounded via a capacitor said capacitor.

5. (original) An MRI system according to Claim 4, wherein a capacitance of a capacitor connected to a ground closest to the earth ground is set to the smallest value.

6. (original) A vertical field-type MRI system, wherein an upper RF shield is grounded via capacitors at four or more points whose directions are different from one another by an equal angle, and a lower RF shield is grounded via capacitors at four or more points whose directions are different from one another by an equal angle.

7. (previously presented) An MRI system according to Claim 5, wherein a capacitance of a capacitor is 1000 pF or more.

8. (previously presented) An MRI system according to Claim 6, wherein a capacitance of a capacitor is 1000 pF or more.

9. (new) An RF shield according to Claim 1, wherein the capacitor is not connected to the RF shield via an RF coil.

10. (new) A magnetic resonance imaging (MRI) system comprising:  
  
a pole piece;  
  
a radio-frequency (RF) coil layered on a side of said pole piece;  
  
a gradient coil configured to generate a gradient field;  
  
an RF shield configured to prevent coupling between said RF coil and said gradient coil;  
  
a capacitor;  
  
a connector configured to connect said capacitor to said RF shield, wherein said MRI system configured to generate a vertical magnetic field, and said RF shield configured to be grounded via said capacitor.

11. (new) An MRI system according to Claim 10, wherein said capacitor is not connected to said RF shield via said RF coil.